

ABSTRACT OF THE INVENTION

[0036] A current time and a current Gregorian date are converted into an epoch time stamp. A number of seconds that have elapsed since a predetermined date up until the current year is determined. A number of seconds that have elapsed since the beginning of the current year up until the current month is determined based on whether the current year is a leap year. In addition, a number of seconds that have elapsed since the beginning of the current month up until the current day is calculated, as is a number of seconds that have elapsed during the current day. All of these values are summed to obtain a converted time. Finally, it is determined whether Daylight Savings Time is in effect, and when Daylight Savings Time is not in effect, 3600 seconds are added to the converted time.